



**THE OHIO STATE UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL,  
AND ENVIRONMENTAL SCIENCES

## PROFESSIONAL DEVELOPMENT

### LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from The Ohio State University Business Training & Educational Services and Tooling U-SME offers a quick-start, progressive road map that allows manufacturers to build career paths for employees. This online training is intended to enhance your existing on the job training, to create a job progression plan and requires minimal preparation. It is efficient, effective training that has been developed with input from manufacturing experts.

### FLEXIBLE AND CONVENIENT

Online classes are self-paced, typically taking 60 minutes to complete. They are easily and conveniently accessible on desktops and laptops, and on tablets and phones with the Tooling U-SME app.

### QUALITY TECHNICIAN

Advanced Hole Inspection  
Basic Measurement  
Basics of Tolerance  
Blueprint Reading  
Calibration and Documentation  
Calibration Fundamentals  
Hole Standards and Inspection  
In-Line Inspection Applications  
Inspecting a Cylindrical Part  
Inspecting a Prismatic Part  
Inspecting with CMMs  
Inspecting with Optical Comparators  
Introduction to GD&T  
Major Rules of GD&T  
Surface Texture and Inspection  
Thread Standards and Inspection  
5S Overview  
Lean Manufacturing Overview  
SPC Overview

Essentials of Heat Treatment of Steel  
Ferrous Metals  
Hardness Testing  
Introduction to Mechanical Properties  
Band Saw Operation  
Basic Cutting Theory  
Cutting Processes  
Introduction to Metal Cutting Fluids  
Metal Cutting Fluid Safety  
Overview of Machine Tools  
ISO 9001 Review  
Bloodborne Pathogens  
Fire Safety and Prevention  
Hand and Power Tool Safety  
Intro to OSHA  
Lockout/Tagout Procedures  
Noise Reduction and Hearing Conservation

Personal Protective Equipment  
Powered Industrial Truck Safety  
Safety for Lifting Devices  
SDS and Hazard Communication  
Walking and Working Surfaces  
Geometry:  
Circles and Polygons  
Geometry: Lines and Angles  
Geometry: Triangles  
Math Fundamentals  
Math: Fractions and Decimals  
Trigonometry: Sine, Cosine, Tangent  
Units of Measurement

### Online Training offers:

- Content developed by industry experts
- Accessible anytime, anywhere
- Self-paced
- Predefined curriculum for each job role
- Engaging and interactive content
- Pre- and post-training knowledge assessments
- Access to Tooling U-SME's Learning Management System (LMS)
- Guidance from our Client Success team, including advice, insights, and ideas built on best practices and years of experience

New content is always being added.  
Check with your representative for the most current list of classes.